SUBJECT INDEX

ACTH
  effect of, in androgens, in infants, 193
Adrenal(s)
  alternative metabolic pathway of 11-deoxycorticosterone, 759
  reticularis zone and effect of dopaminergic compounds, 465
  zona glomerulosa, atrial natriuretic factor, effect on, 643
Adriamycin
  effect on pregnenolone synthesis, 437
Aldosterone
  monoclonal antibody to, 459
  type II receptors of, in kidney and hippocampus, 737
Aminoglutethimide
  effects of, in patients with prostate cancer, 619
Androgen(s)
  in plasma and testis of rat, 703
  metabolism in the male hamster, 179
Androgen binding protein (ABP)
  in blood and in epididymis, 411
Androstanediol glucuronide
  isolation from human plasma, 565
Anti-androgen(s)
  effect on testicular 17α-hydroxylase and 17,20-lyase activities, 43
Aromatase
  inhibition with 4-androstene-3,6,17-trione, 337
  placental, effect of inhibition of, 155

Benign prostatic hyperplasia (BPH)
  5α-androstane-3β,17β-diol hydroxylation enzymes in stroma and epithelium of, 257
  17β-hydroxysteroid dehydrogenase in, 35
Brain
  evaluation of progesterone, 4-androstenedione, pregnenolone, dehydroepiandrosterone and 17-hydroxy-progesterone, 317
Breast cancer
  peroxidative catecholestrogen production in, 513
  quantification of steroid receptors, using an enzyme immunoassay, 663

Catecholestrogen
  in human breast cancer tissue, 513
11β-Chloromethyl-estradiol
  binding to the estrogen receptor, 361
Corticosterone
  for type I receptors, in kidney and hippocampus, 737
Cystic fibrosis
  lack of pancreatic estradiol binding activity in, 349
Cytochrome P-450
  hydroxylation of progesterone by microsomal, of rabbit liver, 711

Danazol
  growth inhibition by, in a human endometrial cancer cell line, 571
Dehydroepiandrosterone sulfate
  enzymatic assay of, 55
Desmethylnafoxidine aziridine
  interaction with the estrogen receptor, 233
Desmethyltamoxifen
  analysis in breast tumors, 609
17,20-Desmolase
  cofactor requirements for, activities, 49

Dexamethasone
effect on blood pressure, in the rat, 433
effect on steroid dynamics, in monkeys, 575
uptake of, into prolactin producing rat pituitary cells, 587
1,25-Dihydroxyvitamin D_3
regulation of prolactin production by, in GH_3 pituitary cells, 395
DNA
factor that promotes glucocorticoid receptor binding to, 449
Endometrial cancer
growth inhibition by danazol in a human, cell line, 571
Enzymeimmunoassay
for progesterone, using a second antibody, 623
for quantification of cytosol and nuclear estrogen receptor, in breast cancer, 653
Enzyme-linked immunosorbent assay (ELISA)
assay for human sex-hormone-binding globulin, 647
Epitestosterone
RIA, thermodynamic aspects, 723
Estradiol
4- and 2-hydroxy, metabolism of, in human male, 499
diacetates, regioselective A-ring iodination of, 21
lipoidal derivatives of, in human mammary cancer cells, 393
non-protein-bound, in blood, 677
Estrogen(s)
effect of, on fat cell lipoprotein lipase, 445
2/4-hydroxylase activities in the rat brain, 533
interrelationships between, and thyroxine on the release of LH and GnRH, 691
multicomponent analysis of, in urine, 203, 215
receptor, binding to 11β-chloromethyl-estradiol, 361
synthesis by rat fetal testis, 301
Flutamide
effect of, in patients with prostate cancer, 619
Glucocorticosteroid(s)
effect of, in rat thymic transcription, 129
increase the length of G_2 and M phases of the HeLa S_3 cell cycle, 345
receptor(s)
ATP-induced activation of purified, 485
binding of, to mammary acceptor sites, 697
correlation of, and PGE_2 in inflammatory fibroblasts, 505
effects on growth and androgen receptor in DDT_1 MF-2 cells, 109
immunochemical comparison of mutant of, 167
sodium molybdate converts the RNA-associated transformed, 1
steroid-affinity purification of rat liver, 769
Gomphoside
metabolism of, 65
Granulosa cells
effects of estrogens and testosterone on FSH-induction of catecholamine and gonadotrophin-responsive progesterone biosynthesis in, 267
Guinea pig
regional differences in microsomal lipid peroxidation, in adrenal cortex of, 637
HeLa S_3 cell
glucocorticosteroids increase the length of the G_2 and M phases, 345
Hippocampus
autoradiographic study of corticosterone and aldosterone binding sites on, of mouse, 29
Hirsutism
a comparative study of aldactone and Diane in the treatment of, 161
HME
a novel derivative for direct iodination in steroid radioimmunoassays, 663
18-Hydroxycorticosterone
convertibility of a saponifiable lipoidal derivative of, 543

11α-Hydroxylase
hydroxylation of steroids with, of *Rhizopus nigricans*, 197
11β-Hydroxylases
characterization of, in *Aspergillus ochraceus* TS, 327
21-Hydroxylase
effect of nicotine, cotinine and anabasine on rat adrenal, 25
evidence that there is more than one adrenal system of, 749
24-Hydroxylase
regulation of, in mouse skin fibroblasts, 479
20α-Hydroxysteroid dehydrogenase
cofactor requirements for, activity, 49
3β-Hydroxysteroid dehydrogenase
modulation of, activity in Theca cells, 77
17β-Hydroxysteroid dehydrogenase
in the human prostate, 35
4-Hydroxytamoxifen
analysis in breast tumors, 609
levels in immature rat uterine cytoplasm, 289
22-Hydroxyvitamin D_3
synthesis, biological activity and protein binding of, 147
Ketoconazole
effect of, on cytochrome P-450sccII-catalyzed reactions, 333
inhibition by, of 17α-hydroxylase and 17,20-lyase, in the testis, 521
Leydig cells
inhibition of testosterone biosynthesis by ethanol, 185
reciprocal inhibition of GnRH and hCG, 743
5(e)-19-nor-10-keto-vitamin D_3
production of, by rumen bacteria, 189
Male pseudo-hermaphroditism
3β-hydroxysteroid dehydrogenase deficiency in, 669
MCF-7 cells
effect of polyamines on proliferation and progesterone receptor levels, 123
4-hydroxytamoxifen bound to nuclear receptor of, 471
MDL 18,962
anti-aromatase effect of, in cultured human foreskin fibroblasts, 139
Monoclonal antibody
to aldosterone, 459
to 17-hydroxyprogesterone, 405
18-Oxocortisol
blood pressure and metabolic effect of, 441
metabolite of, in human urine, 89
Pregnenolone
biosynthesis in adrenal cortex mitochrondia, 437
metabolism in Y-1 mouse adrenal cells, 311
Proestrus-like gonadotropin
induction of, in long term ovariectomized rats, 357
Progesterone
effect on heterosexual olfactory and visual stimulation on 5-en-3β-hydroxysteroids and progesterone in the male rat brain, 697
effect on, in phosphatidylinositol, in uterus of rat, 629
hydroxylation of, by the rabbit liver microsomal cytochrome P-450, 703
immunoassay of, using geometrical isomers, 83
stimulation of a specific protein in epithelial endometrial cells, 285
Progestins
analysis of the androgenic activity of synthetic, 379
Prostate
the induction of estrogen receptors in the prostate of castrated monkeys, 779
Prostate cancer
androgenic activity of synthetic progestins in, 379
retinoic acid, an inhibitor of 5α-reductase in, 731

Rat
liver microsomal steroid metabolism using ^{18}O-labelled testosterone and progesterone, 549
Receptors
adrenocorticoid
effect on potassium and sodium flux in rat C_6 glioma cells, 593
androgen(s)
analysis of steroid and DNA-binding domains of the calf uterine, 9
in two families with complete androgen resistance, 279
estrogen(s)
in rat uterus, 717
glucocorticosteroid(s)
ATP-induced activation of perifused, 485
binding to mammary chromatin acceptor sites, 623
effects on growth and androgen receptor in DDT_1MF-2 cells, 109
immunochemical comparison of mutant of, 167
leupeptin inhibits the transformation of, 273
sodium molybdate converts the RNA-associated transformed, 1
steroid-affinity purification of rat liver, 769
progesterone
estradiol-induced, in normal and diabetic ovariectomized rats, 61
5α-Reductase
mechanism of antiandrogenic effect of, 227
RU-486
effect of, on inhibition of occupied nuclear estrogen receptor in the uterus, 117
effects in rat mammary gland, 371
is not an antiprogestin in the hamster, 493
prolongs survival in murine congenital polycystic kidney disease, 783
Seminal vesicle
cells, effect of androgen, in adult mice, 399
cells, role of neonatal and prepubertal testicular androgens in, 559
Sex hormone binding globulin
in human serum, 429
Steroid-antibody
structural aspects, and specificity of, 95
Tamoxifen
analysis of, in breast tumors, 609
influence of, on steroidogenesis after prolonged administration, in rat, 301
levels in immature rat uterus, 289
Testicular steroidogenesis
influence of neonatal androgenization on, in adult rat, 421
Trifluoperazine
effect on ovarian mitochondrial side-chain cleavage activity, 353
Uterus
cytosol type II sites in, of rat, 599
estrogen receptors, 717
Vental prostate
stimulation of mitochondrial aspartate aminotransferase in, 247
Vitamin D
and its metabolites, recent developments in the measurement of, 785

We wish to thank the following persons for their kind cooperation in reviewing papers for the *Journal of Steroid Biochemistry*:

Drs A. Capponi, Geneva, Switzerland; S. Cekan, Stockholm, Sweden; A. I. Coffer, London, England; M. M. Compton, Chapel Hill, U.S.A.; B. A. Cooke, London, England; L. Dehennin, Fresnes, France; Groh, Jena, German Democratic Republic; W. Heyns, Leuven, Belgium; G. Hobe, Jena, German Democratic Republic; I. A. Horhveld, Jena, German Democratic Republic; C. A. Hornhold, Jena, German Democratic Republic; P. H. Jellinck, New York, U.S.A.; J. A. Katzenellenbogen, Urbana, U.S.A.; J. Kolanowski, Brussels, Belgium; K. Martin, New York, U.S.A.; M. Neves-e-Castro, Lisbon, Portugal; T. Ojasoo, Paris, France; C. C. Pierrepoint, Cardiff, Wales; M. Pons, Romainville, France; M. J. Reed, London, England; M. A. Rivarola, Buenos Aires, Argentina; J. Saez, Lyon, France and C. M. Silva, Chapel Hill, U.S.A.

AUTHOR INDEX

Adams J. B. 393
Adams N. R. 599
Adlercreutz H. 203, 289, 609
Akuffo V. 247
Alario P. 433
Alejandro M. 599
Ali H. 21
Allison M. J. 189
Almeida Toledo de S. P. 669
Altamarano A. 437
Aono T. 571
Arai K. 83
Arnhold I. J. P. 669
Asem E. K. 353
Ayata M. 399, 599
Ayub M. 43, 521
Azzaoui A. 703

Ball P. 499
Barbieri R. L. 25
Bartsch W. 35
Batista M. C. 669
Beaumont K. 593
Beery R. 471
Beiras A. 465
Bélanger A. 619
Belgorosky A. 429
Belič I. 197
Bell B. W. 411
Benais J.-P. 317
Benoit V. 445
Benraad Th. J. 743
Berkovitz G. D. 139
Bílek R. 723
Bindal R. D. 361
Bjøro T. 385
Blaquier J. A. 227
Bloise W. 669
Blotman F. 505
Boer de W. 9
Boers G. H. J. 743
Bokkenheuser V. D. 49
Bolt J. 9
Bonete R. 317
Boucher D. 703
Boularan A.-M. 55
Bourget C. 575
Boyer J. 445
Braun B.-E. 257
Brinkman A. O. 9
Brochu M. 619
Brown T. R. 139
Bui Q. D. 513
Burdett J. E. Jr 565
Buss W. C. 129
Büttner D. 357

Cancela L. 479
Carlson K. E. 361
Carmen Vila del M. 543
Ceballos N. R. 543
Celotti F. 179
Chao H.-T. 691
Cherry M. L. 25
Cheung H. T. A. 65
Christeff N. 459
Chu M. D. 89
Chuong V. T. 505
Cidlowski J. A. 345
Cittanova N. 459
Clark A. 349
Clark G. M. G. 677
Clark J. H. 599
Claus S. 257
Coghlan J. P. 441
Colby H. D. 637
Coldwell R. D. 785
Corradino R. 147
Costello L. C. 247
Coutard M. 29
Cozza E. N. 543
Crastes de Paulet A. 505
Crocker J. F. S. 783
Cuéllar A. 437
Cusan L. 379, 619

Damon M. 505
Danzo B. J. 411
Degrelle H. 311
Dehennin L. 311
De Nicola A. F. 683
Denton D. A. 441
Descomps B. 55
Desfosses B. 459
Devesa J. 465
De Vinna R. S. 77
Díaz-Sánchez V. 437
Diehl E. E. 485
Distelhorst C. W. 167
diZerega G. S. 77
Djiane J. 371
Djøseland O. 161
Dreux C. 317
Drummond M. C. F. 669
Dupont A. 619
Duval D. 29

Eechaute W. 301, 421
Ekka E. 61
El Etreby F. 779
Eller B. C. 411
Elliston J. F. 233
Emons G. 499
Eneroth P. 549
Eriksson C.-G. 549
Eriksson C. J. P. 185
Escobar M. E. 429

Facchinetti F. 465
Fanestil D. D. 593
Fanger B. O. 345
Femino A. 575
Fiet J. 317
Findlay J. K. 285
Fotsis T. 203, 215, 289, 609
France J. T. 155
Fránek M. 95
Franklin R. B. 247
Franklin S. O. 749
Franz C. 575
Funder J. W. 737
Furu K. 587

Gamallo A. 433
Gardner R. M. 189
Gaudiero G. J. 465
Gautvik K. M. 385, 587
Geier A. 471
Genazzani A. R. 465
Gentin M. 459
Ghaffari M. A. 21
Ghosh D. K. 327
Ghraf R. 357
Gill H. S. 147
Glorieux B. 61
Gomez-Sanchez C. 441
Gottlieb B. 279
Gourmel B. 317
Gray G. O. 493
Greenfield N. J. 749
Greeve J. 35
Grill H.-J. 647
Grippo J. F. 449
Grizard G. 703
Grossman A. 349
Gueux B. 317

Habenicht U.-F. 779
Habrioux G. 311
Haimsohn M. 471
Halgunset J. 731
Hampl R. 723
Hapgood J. P. 769
Hartman P. A. 189
Hastings S. 575
Haug E. 385, 587
Healy D. L. 285
Heller C. L. 683
Hermus A. R. M. M. 743
Hertelendy F. 353, 629
Hertogh de R. 61
Heubner A. 647
Hiemke C. 357
Hillier S. G. 267
Hoare S. A. 677
Holmgren A. 449
Holt von C. 769
Horst R. L. 189
Horton R. 565
Hosoda H. 405
Houdebine L.-M. 371
Howard K. J. 167
Hudson K. E. 267
Hylemon P. B. 49

Ikegami H. 571
Itoh S.-i. 405

Jahn G. A. 371
Janiga K. E. 167
Johnson I. E. 653
Juchem M. 647

Kambegawa A. 83
Kasayama S. 1, 273
Kasongo L. Y. 663
Katagiri M. 333
Katzenellenbogen B. S. 123
Katzenellenbogen J. A. 233, 361
Kaufman M. 279
Kendra K. L. 123
Kiguchi T. 759

Kilvik K. 587
Kishimoto S. 1, 273
Kitamura Y. 399, 559
Kloppenborg P. W. C. 743
Knuppen R. 499
Kobayashi Y. 759
Kowalczyk-Przeewłoka T. 663
Krafft A. E. 49
Krieg M. 257
Kruter R. H. E. 139
Kuiper G. G. J. M. 9
Kukoyi B. I. 247
Kula E. 663
Kumar R. 147

Labrie C. 379
Labrie F. 379, 619
Lacroix C. 317
Lacroix E. 301, 421
Lanthier A. 697
Lantos C. P. 543
Lapointe S. 379
Lauzon de S. 459
Leavitt W. W. 493
Leboeuf G. 279
Le Trang N. 459
Leusen I. 301, 421
Levell M. J. 43, 521
Levin M. 513
Lieberman S. 749
Lier van J. E. 21
Lima L. 465
Londowski J. M. 147
Longcope C. 575, 717
Loriaux D. L. 499
Loubatiere J. 505
Lunde O. 161
Lundmo P. I. 731
Lunenfeld B. 471

Maeda M. 405
Magness R. R. 155
Makin H. L. J. 785
Markaverich B. M. 599
Martin F. 289
Martin L. 179
Martyn P. 393
Mason J. I. 155
Matsuguchi M. 311
Matsuguchi-Moreau L. 311
Matsumoto K. 1, 273, 399, 559, 571
Mattar E. 669
Mazzocchi G. 643
McCarthy S. C. 783
Meignen J. M. 445
Melcangi R. C. 179
Mendonca B. B. 669
Mercier L. 445
Merriam G. R. 499
Meyer H. H. D. 623
Migeon C. J. 139
Mills E. H. 441
Mitsuma M. 83
Miyamori I. 333
Mobbs B. G. 653
Moore J. W. 677
Moore P. H. Jr 565
Moreau M. F. 459
Morris J. F. 349
Mulder E. 9
Murphy C. 289, 609
Murry B. A. 155
Mutlib A. E. 65
Mutsumi A. 337

Nag A. 109
Nagai K. 333
Nakao M. 1, 273
Nambara T. 405
Negri-Cesi P. 179
Nicolas J.-C. 55
Nicolau W. 669
Ninomiya I. 759
Nishiguchi Y. 759
Nishizawa Y. 1, 273
Noma K. 1, 273
Norris J. S. 109
Numazawa M. 337
Nussdorfer G. G. 643

Ogborn M. R. 783
Okamoto S. 399, 559
Okinaga S. 83
Okulicz W. C. 117
Orava M. M. 185
Osborne-Pellegrin M. J. 29

Pantzar P. 609
Patwardhan V. V. 697
Perez-Fernandez R. 465
Perheentupa J. 193
Pfeiffer D. 499
Piatt M. K. 129
Pieters G. F. F. M. 743
Pinsky L. 279
Piroli G. 683
Plante M. 379
Pollow K. 647
Porteous C. E. 785
Prakash B. S. 623
Pratt S. E. 449
Pratt W. B. 449
Putz Z. 723

Quinlan M. K. 677

Raemaekers J. M. M. 743
Rafkind I. 717
Rao P. N. 565
Rebuffat P. 643
Rebut-Bonneton C. 479
Rehmus E. H. 167
Reilly J. 717
Reiner G. C. A. 361
Reinhardt T. A. 189
Riikonen R. 193
Rivarola M. A. 429
Roberts R. R. 599
Rosenfeld C. R. 155
Rüde S. 647
Ruh M. F. 581
Ruh T. S. 581
Russell V. A. 533
Ryan K. J. 25

Sabatier R. 55
Salamonsen L. A. 285
Samanta T. B. 327
Santen R. J. 513
Sato B. 1, 273
Sawada J.-i. 405
Schallenberger E. 623
Schmid A. 357
Schmidt T. J. 485
Schreifer J. 345
Schulze H. 257
Scoggins B. A. 441
Senciall I. R. 711
Shaw F. 349
Sheppard K. E. 737
Shimizu I. 571
Shyamala G. 581
Simell O. 193
Simpson D. M. 233
Singh R. K. 581
Smals A. E. M. 743
Smals A. G. H. 743
Smith D. L. 393
Smith R. G. 109
Sotos J. F. 279
Spence C. D. 441
Staats D. A. 637
Stalter K. 129
Stárka L. 723
Stead R. J. 349
Stepanek J. 129
Stupnicki R. 663
Suhara K. 333
Sultan C. 55
Sunde A. 731
Syms A. J. 109

Takeda R. 333
Taljaard J. J. F. 533
Tanizawa O. 571
Terada N. 559
Terakawa N. 571
Terao T. 405
Tezon J. G. 227
Theron C. N. 533
Tienrungroj W. 449
Tonetta S. A. 77
Tóth M. 629
Trafford D. J. H. 785
Trancho G. 433
Tsuji A. 405
Tsuji M. 337
Tunn S. 257

Ulick S. 89

Valette A. 445
Vanderheyden I. 61
Vanderstichele H. 301, 421
Vaughn D. A. 593
Vazquez M. H. 227
Vihko R. K. 185
Villanua M. A. 433
Villette J.-M. 317
Voigt K.-D. 35
Voutilainen R. 193

Wang D. Y. 677
Wang P. S. 691
Wang S.-W. 691
Watanabe F. 759
Watson T. R. 65
Weisenberg L. S. 683
Weisz J. 513
Weniger J.-P. 307
Whitworth J. A. 441
Wickings E. J. 267
Widenius T. V. 185
Wiel van de D. F. M. 623
Winter J. 49

Yamane T. 399, 559
Ylikahri R. H. 185
York C. M. 25

Žakelj-Mavrič M. 197
Zeis A. 307

PRINTED IN GREAT BRITAIN BY A. WHEATON & CO. LTD, EXETER

Reproduced with the permission of Pergamon Press Inc., by University Microfilms Inc. Duplication or resale without permission is prohibited.